



P-CWL2

PRODUCT DATA SHEET

1/10/22

P-CWL2 (PETROCHEM - CHEMICAL WASH LIQUID 2)

TECHNICAL DATA

- **P-CWL2** is a concentrated chemical pre-flush designed as a cement aid for use where the cement slurry must displace a water-base drilling mud. As a pre-flush **P-CWL2** serves as a spacer between the drilling fluid and the cement slurry. This prevents mud gelation which usually occurs when cement contacts a water-base drilling mud. Mud gelation can be a serious problem in cementing. A cement slurry tends to finger through or bypass the viscous gelled mud, resulting in a poor bond between the pipe and formation. Subsequent stimulation treatments often result in communication with unwanted zones. The use of a chemical wash such as **P-CWL2** sweeps the mud ahead and disperses residual mud left in contact with the walls of the pipe and formation.
- **P-CWL2** is used to prepare chemical wash spacers for both water based and oil-based mud systems. However, the use of **P-NSL4** is required at a concentration of 1-2 gallons per barrel of **P-CWL2** to make the chemical wash liquid compatible with the oil-based mud.
- **P-CWL2** has a low viscosity & a zero yield point. As a result it goes into turbulent flow at very low pump rates. The velocity eddies, that result from the turbulent fluid, sweeps the side of the pipe and formation resulting in excellent mud removal. This leaves a clean water wet surface on the face of the casing and formation. The uncontaminated cement slurry that follows can contact both the formation and pipe and the chances of getting a good bond are generally enhanced. It is recommended that the volume of **P-CWL2** pre-flush required to give a 10 minute contact time be used ahead of the cement slurry. Contact time less than 10 minutes is not sufficient for the velocity components of the wash to effectively clean the formation and pipe surface of drilling mud.

PROPERTIES

- Appearance: Clear Amber (Liquid)
- Specific Gravity: 0.98
- Temperature Range: <450°F

RECOMMENDED TREATMENT

- The normal concentration range of **P-CWL2** is 1-2 Gallons per barrel of water depending on compatibility testing.
- When **P-CWL2** is used with Oil Based Mud, add 1-2 gallons of **P-NSL4** per barrel of chemical wash to achieve compatibility.
- Compatibility testing is highly recommended prior to use in the field.

PACKAGING

- **P-CWL2** is packaged in 55-gallon (208L.) drums, 5-gallon (19L.) Pails & 265-gallon (1,000L.) Totes.

SAFETY

- Read the SDS before use.